

2/3 (1/1 WPI) - (C) WPI / DERWENT

AN - 1994-330310 [45]

AP - JP19920358226 19921225 JP19920358226 19921225; [Previous Publ.
J06256689]

PR - JP19920358226 19921225

TI - Waterproofing and antimould coating film compsn. for buildings -
comprises antimicrobial metal ion carrying zeolite particles and
benzimidazole deriv. or bis-(2-pyridylthio-1-oxide) metalate

IW - WATERPROOF COATING FILM COMPOSITION BUILD COMPRISE

ANTIMICROBIAL METAL

ION CARRY ZEOLITE PARTICLE BENZIMIDAZOLE DERIVATIVE DI OXIDE

PA - (CEME) CEMEDINE CO LTD

- (KAJI) KAJIMA CORP

- (KANE) KANEBO LTD

- (NICH) NICHIMEN CO LTD

PN - JP6256689 A 19940913 DW199441 C09D5/14 006pp

- JP2821968B2 B2 19981105 DW199849 C09D5/14 005pp

IC - C09D5/00 ; C09D5/08 ; C09D5/14 ; C09D183/04

AB - J06256689 Compsn. comprises antimicrobial metal ion carrying zeolite particle, pref. 0.01-10 wt.% of total compsn., and at least one organic antimould cpd. pref. 0.01-10 wt.% of total compsn., selected from benzimidazole derivs. and bis(2-pyridylthio-1-oxide) metalate, pref. of Zn.

- Antimicrobial metal ion is pref. Ag ion. The benzimidazole deriv. is 2-(4-thiazolyl)-benzimidazole or 2-methoxycarbonyl-aminobenzimidazole.
- USE/ADVANTAGE - The film coating compsn. is coated on buildings e.g. hospital building, clean room, food processing factory and basement of the construction near water. The compsn. has improved antimould properties against wide varieties of mould species.
- In an example, the coating compsn. is a mixt. of compsn. (A) and compsn. (B) in a 1/1 wt. ratio. Compsn. (A) comprises 100 pts.wt. epoxy resin ("Epicoat 828"; RTM by Yuka Shell Epoxy KK), 40 pts.wt. CaCO₃, 20 pts.wt. TiO₂, 2.0 pts.wt. dibutyl tin laurate, 2.0 pts.wt. vinyltrimethylsilane, and 0.6 wt.% zeolite particle (i.e. A type zeolite, 2 microns average particle dia. contg. 2.0 wt.% Ag, and contg. 9.5 wt.% Zn) on total of compsns. (A) and (B). Compsn. (B) comprises 100 pts.wt. modified silicone resin ("Kaneka MS polymer"; RTM by Kanegafuchi Kagaku Kogyo KK), 50 pts.wt. calcium carbonate, 2.0 pts.wt. N-beta(aminoethyl) -gamma-aminopropyl-trimethoxy-silane 2.5 pts.wt. 2,4,6-(tris-dimethylaminomethyl) phenol, 2.0 pts.wt. vinyltrimethylsilane, and 0.1 wt.% 2-(4- thiazolyl)-benzimidazole on total of compsns. A and B.(Dwg.0/0)

3/3 (1/1 PAJ) - (C) PAJ / JPO

PN - JP6256689 A 19940913

PA - KAJIMA CORP; others: 03

I - C09D5/14 ; C09D5/00

TI - FUNGIPROOF AND WATERPROOF COATING COMPOSITION

- AB - PURPOSE:To obtain the subject compsn. which is effective against fungi of the third group (*Rhizopus stolonifer*).
- CONSTITUTION:Zeolite particles carrying an antifungal metal ion is used jointly with an org. fungiproof agent comprising a benzimidazole deriv. or a metal salt of bis(2-pyridylthio-1-oxide). Although each of them, when used alone, is ineffective against fungi of the third group under conditions favorable for their growth, remarkable effects are obtd. when jointly used as above.